BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT ISSAC LAYOUT IN WARD NO.02 OF YELAHANKA SUB-DIVISION

								Estimate Cost Rs.	30.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)									
	Road Cut Portions	Cum								
	Issac Layout Main Road		1	370.00	1.80	0.45	299.70			
	1st Cross Road Issac Layout		1	40.00	1.50	0.45	27.00			
	2nd Cross Road Issac Layout		1	36.00	1.40	0.425	21.42			
	8th Cross Road Issac Layout		1	40.00	1.20	0.40	19.20			
	9th Cross Road Issac Layout		1	40.00	1.50	0.45	27.00			
	10th Cross Road Issac Layout		1	40.00	1.50	0.45	27.00			
	11th Cross Road Issac Layout		1	40.00	1.20	0.40	19.20			
	2nd Cross Susheelamma Lyt		1	53.00	6.00	0.45	143.10			
	Cross Cuttings		45	6.00	0.60	0.40	64.80			
							648.42	166.42	**107910.00**	
	Basic Rate	157.00								
	Area Weightage @ 6%	9.42								
	Total	**166.42**								
2	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)									
		Cum								
					Qty Vide Item No.2			**648.42**	100.00	**64842.00**
	Average Weight of Earth 1.28 Tonne/Km									
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00								
	Add loading and unloading Item No 17.1)	68.00								
	Total	**100.00**								
3	**Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per Specifications. (P.No.157 & I.No.21.2)									
		Sqm								
	Issac Layout Main Road		1	370.00	6.00		2220.00			
	1st Cross Road Issac Layout		1	40.00	5.00		200.00			
	2nd Cross Road Issac Layout		1	36.00	5.00		180.00			
	8th Cross Road Issac Layout		1	40.00	5.50		220.00			
	9th Cross Road Issac Layout		1	40.00	5.00		200.00			

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	10th Cross Road Issac Layout		1	40.00	5.50		220.00		
	11th Cross Road Issac Layout		1	40.00	5.50		220.00		
				Deduct Road cut portions			-1543.48		
							1916.52	3.18	**6095.00**
	Basic Rate	3.00							
	Area Weightage @ 6 %	0.18							
	Total	**3.18**							
4	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
	Road Cut Portions	Cum							
	Issac Layout Main Road		1	370.00	1.80	0.15	99.90		
	1st Cross Road Issac Layout		1	40.00	1.50	0.15	9.00		
	2nd Cross Road Issac Layout		1	36.00	1.40	0.15	7.56		
	8th Cross Road Issac Layout		1	40.00	1.20	0.15	7.20		
	9th Cross Road Issac Layout		1	40.00	1.50	0.15	9.00		
	10th Cross Road Issac Layout		1	40.00	1.50	0.15	9.00		
	11th Cross Road Issac Layout		1	40.00	1.20	0.15	7.20		
	2nd Cross Susheelamma Lyt		1	53.00	6.00	0.15	47.70		
	Cross Cuttings		45	6.00	0.60	0.15	24.30		
							220.86	1665.26	**367789.00**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
5	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Road Cut Portions	Cum							
	Issac Layout Main Road		1	370.00	1.80	0.225	149.85		
	1st Cross Road Issac Layout		1	40.00	1.50	0.225	13.50		
	2nd Cross Road Issac Layout		1	36.00	1.40	0.225	11.34		
	8th Cross Road Issac Layout		1	40.00	1.20	0.225	10.80		
	9th Cross Road Issac Layout		1	40.00	1.50	0.225	13.50		
	10th Cross Road Issac Layout		1	40.00	1.50	0.225	13.50		
	11th Cross Road Issac Layout		1	40.00	1.20	0.225	10.80		
	2nd Cross Susheelamma Lyt		1	53.00	6.00	0.225	71.55		
	Cross Cuttings		45	6.00	0.60	0.225	36.45		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Potholes		12	1.20	1.20	0.15	2.59		
			16	1.50	1.20	0.15	4.32		
			25	1.00	1.00	0.15	3.75		
							341.95	1768.08	**604598.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
6	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Road Cut Portions	Cum							
	Issac Layout Main Road		1	370.00	1.80		666.00		
	1st Cross Road Issac Layout		1	40.00	1.50		60.00		
	2nd Cross Road Issac Layout		1	36.00	1.40		50.40		
	8th Cross Road Issac Layout		1	40.00	1.20		48.00		
	9th Cross Road Issac Layout		1	40.00	1.50		60.00		
	10th Cross Road Issac Layout		1	40.00	1.50		60.00		
	11th Cross Road Issac Layout		1	40.00	1.20		48.00		
	2nd Cross Susheelamma Lyt		1	53.00	6.00		318.00		
	Cross Cuttings		45	6.00	0.60		162.00		
	Potholes		12	1.20	1.20		17.28		
			16	1.50	1.20		28.80		
			25	1.00	1.00		25.00		
							1543.48	27.56	**42538.00**
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
7	KSHRB MS09- 15. Providing, laying dense graded bituminous macadam using 4000 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
		Cum							
	Issac Layout Main Road		1	370.00	1.80	0.050	33.30		
	1st Cross Road Issac Layout		1	40.00	1.50	0.050	3.00		
	2nd Cross Road Issac Layout		1	36.00	1.40	0.050	2.52		
	8th Cross Road Issac Layout		1	40.00	1.20	0.050	2.40		
	9th Cross Road Issac Layout		1	40.00	1.50	0.050	3.00		
	10th Cross Road Issac Layout		1	40.00	1.50	0.050	3.00		
	11th Cross Road Issac Layout		1	40.00	1.20	0.050	2.40		
	2nd Cross Susheelamma Lyt		1	53.00	6.00	0.050	15.90		

Sl. No.	Description of Work	Unit	No.	L	B	D	Qty.	Rate	Amount
	Cross Cuttings		45	6.00	0.60	0.050	8.10		
	profile correction	15% of Qty Vide Item No.3			287.48	0.050	14.37		
							87.99	6435.26	**566264.00**
	Basic Rate	6071.00							
	Area Weightage @ 6%	364.26							
	Total	**6435.26**							
8	KSRRB 500-7 Providing and **applying tack coat with bitumen emulsion** using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
		Sqm							
	Issac Layout Main Road		1	370.00	6.00		2220.00		
	1st Cross Road Issac Layout		1	40.00	5.00		200.00		
	2nd Cross Road Issac Layout		1	36.00	5.00		180.00		
	8th Cross Road Issac Layout		1	40.00	5.50		220.00		
	9th Cross Road Issac Layout		1	40.00	5.00		200.00		
	10th Cross Road Issac Layout		1	40.00	5.50		220.00		
	11th Cross Road Issac Layout		1	40.00	5.50		220.00		
	2nd Cross Sushee Layout		1	53.00	6.00		318.00		
							3778.00	14.84	**56066.00**
	Basic Rate	14.00							
	Area Weightage @ 6 %	0.84							
	Total	**14.84**							
9	KSRRB M500- 1 Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with electronic paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.16- 22.6)								
		Cum							
	Issac Layout Main Road		1	370.00	6.00	0.040	88.80		
	1st Cross Road Issac Layout		1	40.00	5.00	0.040	8.00		
	2nd Cross Road Issac Layout		1	36.00	5.00	0.040	7.20		
	8th Cross Road Issac Layout		1	40.00	5.50	0.040	8.80		
	9th Cross Road Issac Layout		1	40.00	5.00	0.040	8.00		
	10th Cross Road Issac Layout		1	40.00	5.50	0.040	8.80		
	11th Cross Road Issac Layout		1	40.00	5.50	0.040	8.80		
	2nd Cross Sushee Layout		1	53.00	6.00	0.040	12.72		
							151.12	7270.54	**1098724.00**
	Basic Rate	6859.00							
	Area Weightage @ 6%	411.54							
	Total	**7270.54**							

Sl. No.	Description	Unit	No.	L	B	D	Qty.	Rate	Amount
10	KSPRB MB00-10 ad[illegible]king with hot applied thermoplastic compound with reflect rising gla[illegible] ad[illegible]n bituminous surface- providing and laying of hot applied thermoco[illegible] co[illegible]ound 2.5 mm thick including reflectorising glass Beads at 250 g/[illegible] sq[illegible]rea, thickness of 2.5 mm is exclusive of surface to level, uniform [illegible] [illegible] streaks and holes complete as per specifications. MORTH specifi[illegible] fo[illegible] No. 1974 (P.No.181 & I.No.24.15)								
		Sqm							
			2.5	659	0.10		164.75		
							164.75	464.28	**76490.00**
	[illegible] Rate	4[illegible]8.00							
	Area [illegible]g @ %	28.28							
	Total	464.28							
11	Miscellaneous un[illegible]aseen charges	LS							8684.00
							Grand Total Amount		3000000.00

(RupeesThirty Lakhs Only)

CERTIFICATE

(1) The site has been [illegible]cte[illegible] the work is found to be necessary.
(2) The rates adopte[illegible] s p[illegible] SR of 2016-17 and data rate of Bangalore Circle.
(3) The provisions w[illegible]de [illegible] is estimate are necessary and adequate.
(4) The area comes [illegible]he [illegible]ot Beng[illegible]uru Mahanagara Palike Limits.

Assistant
Ward N[illegible]

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

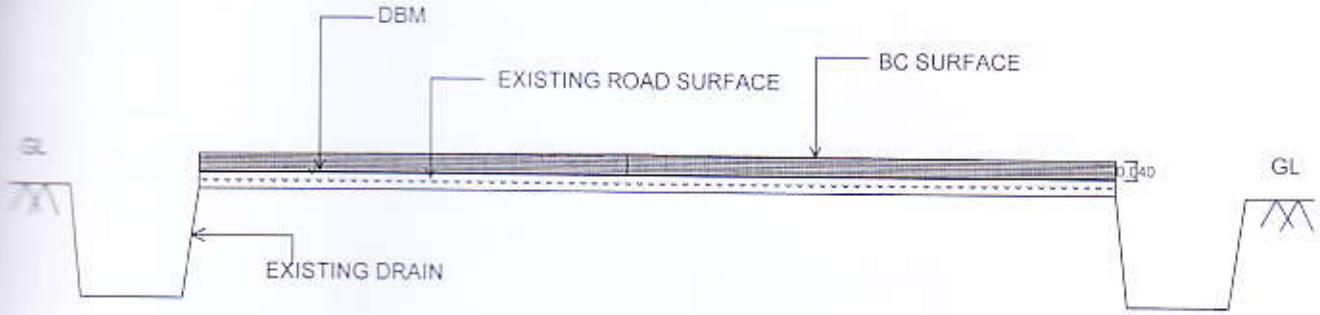
Administrative Approval
Accorded For ..... 30.00 lakh Rs
Head of A/C..... P-1771
CER NO :..... 179 ..... Dt:.. 16-2-17

TA CE (YNK)

Technical Sanction
Accorded For ..... 30.00 lakh Rs
Head of A/C..... P1771
CER NO :..... 133 ..... Dt:.. 16-2-17

TA CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT ISSAC LAYOUT IN WARD NO.02 OF YELAHANKA SUB-DIVISION



TYPICAL CROSS SECTION OF ASPHALT ROAD

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT ISSAC LAYOUT IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE

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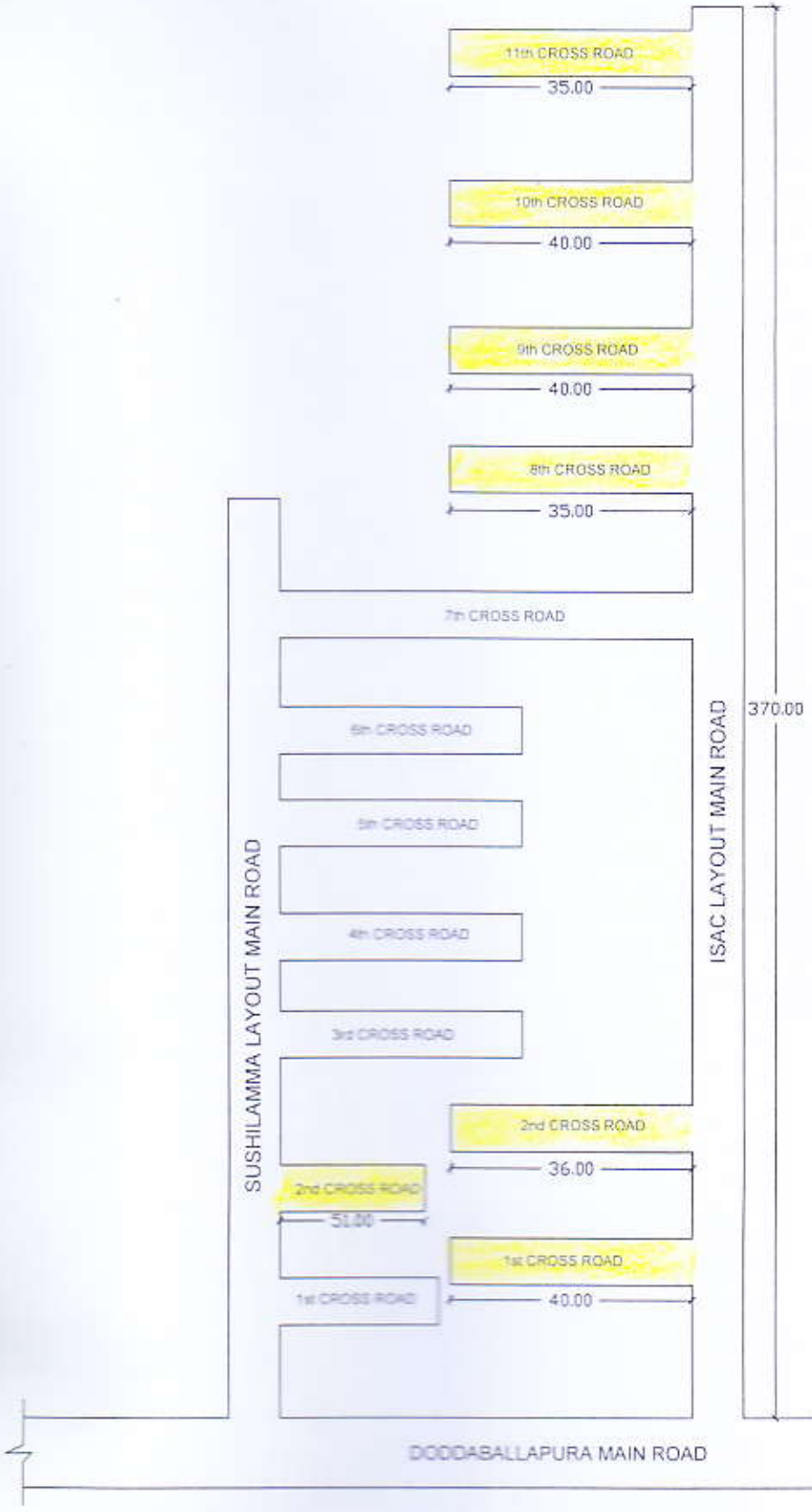

INDEX

– ASPHALTING

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

ELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

No of Roads : 490	
Total Length of Roads (In Meters) -72983.59	